WEST Search History

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DATE: Tuesday, December 23, 2003

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	DB=PGPB,USPT,USOC; PLUR=YES; OP=ADJ		
☐	L32	L31 and poll$	8
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☐	L25	L22 and (download$ or down?load$)	3332
☐	L24	L22 and (PCB or (print$ near2 board))	1062
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	DB=EPAB; PLUR=YES; OP=ADJ		
☐	L21	L16 and server	0
	DB=JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L20	L19 and (PCB or (print$ near2 board))	2
☐	L19	L15	119
	DB=EPAB; PLUR=YES; OP=ADJ		
☐	L18	L16 and bootstrap$	0
☐	L17	L16 and PCB	0
☐	L16	L15	21
	DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L15	L14	140
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
☐	L14	L13 and (updat$ or upgrad$ or version$)	8770
☐	L13	L12 or l11	13372
☐	L12	microcode and image	2833
☐	L11	firmware and image	11074
	DB=PGPB,USPT,USOC; PLUR=YES; OP=ADJ		
☐	L10	L9 or l8 or l7 or l6 or l5 or l4 or l3 or l2 or l1	31222
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☐	L2	702/117-123.ccls.	1001
☐	L1	717/120-122,168-178.ccls.	1377

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 16 of 16 returned.

☐ 1. Document ID: US 20030196111 A1

L31: Entry 1 of 16 File: PGPB Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030196111
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030196111 A1

TITLE: Attesting to a value of a register and/or memory region

PUBLICATION-DATE: October 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lampson, Butler W.	Cambridge	MA	US	
DeTreville, John D.	Seattle	WA	US	
England, Paul	Bellevue	WA	US	

US-CL-CURRENT: 713/200; 713/1

ABSTRACT:

In accordance with one aspect of attesting to a value of a register and/or memory region, an operating system of a device receives a request, in response to an ATTEST operation being invoked, to make a signed attestation of a value. The operating system signs a statement that includes the value using a private key of a pair of public and private keys of a processor of the device. The value may be stored in a register and/or a region of memory.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc | Ir

☐ 2. Document ID: US 20030177208 A1

L31: Entry 2 of 16 File: PGPB Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030177208
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030177208 A1

TITLE: Automatic TFTP firmware download

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Harvey, Arthur Edwin IV	Sacramento	CA	US	

US-CL-CURRENT: 709/221

ABSTRACT:

A method of performing automatic Trivial File Transfer Protocol (TFTP) firmware download, includes: obtaining, by either a network-connected device (i.e., DHCP) or user (i.e., command file), a configuration file, where the configuration file includes an Internet Protocol (IP) address of a target device and a file name of a target file in the target device; retrieving a software image from the target file; determining if there is a match between the software image from the target file and another software image currently running on the device; and downloading to the network-connected device the software image from the target file if the software image is compatible and different from the software image currently in the device. An apparatus for performing automatic Trivial File Transfer Protocol (TFTP) firmware download, includes: a device including a TFTP module; and a target device coupled to the device via a network, the target device including a TFTP module to permit an automatic TFTP protocol to download a configuration from the target device to the device, where the device obtains a configuration file with an automatic TFTP statement indicating the Internet Protocol (IP) address of the target device and a file name of a target file with the configuration.

☐ 3. Document ID: US 20030154471 A1

L31: Entry 3 of 16 File: PGPB Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030154471
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030154471 A1

TITLE: Method for upgrading firmware in an electronic device

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Teachman, Michael E.	Victoria		CA	
Hancock, Martin A.	Victoria		CA	
Duncan, Catherine A.	Victoria		CA	
Huber, Benedikt T.	Victoria		CA	

US-CL-CURRENT: 717/171; 713/1

ABSTRACT:

An improved method of upgrading the firmware of an electronic device is disclosed. The method is executed over a communications link. The method includes compression of a

portion of the new firmware, but does not require the device to have any pre-existing decompression algorithms built into it. A system and device capable of executing the method is also disclosed.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc | Ir

☐ 4. Document ID: US 20030023962 A1

L31: Entry 4 of 16 File: PGPB Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030023962
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030023962 A1

TITLE: Method for just-in-time updating of programming parts

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Erickson, Michael John	Loveland	CO	US	
Maciorowski, David R.	Parker	CO	US	
Kroeger, Christopher Shawn	Longmont	CO	US	

US-CL-CURRENT: 717/171; 717/178

ABSTRACT:

The invention provides a method of implementing firmware updates to programmable parts within circuit boards on a manufacturing line. An image file of firmware for each of the parts is created and stored on a firmware server. The programmable parts are preferably integrated with the printed circuit boards; each of the boards networks to the firmware server by connection with an interface server, such that the image files download to the circuit board for programming the board's internal programmable parts. Networking between the parts and the firmware server can include communications across the Internet and/or one or more area networks. Multiple interface servers may be integral with the products incorporating the programmable parts so that many products may be updated concurrently.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. Desc | Ir

☐ 5. Document ID: US 20020035621 A1

L31: Entry 5 of 16 File: PGPB Mar 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020035621
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020035621 A1

TITLE: XML-based language description for controlled devices

PUBLICATION-DATE: March 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zintel, William Michael	Kenmore	WA	US	
Gandhi, Amar S.	Redmond	WA	US	
Gu, Ye	Seattle	WA	US	
Leach, Paul J.	Seattle	WA	US	
Cai, Ting	Redmond	WA	US	
Knight, Holly N.	Woodinville	WA	US	
Ford, Peter S.	Carnation	WA	US	

US-CL-CURRENT: 709/220

ABSTRACT:

A device control model provides an integrated set of addressing, naming, discovery and description processes that enables automatic, dynamic and ad-hoc self-setup by devices to interoperate with other devices on a network. This permits a computing device when introduced into a network to automatically configure so as to connect and interact with other computing devices available on the network, without a user installation experience and without downloading driver software or persisting a configuration setup for connecting and interacting with such other computing devices. Upon completing interaction with such other devices, the computing device automatically releases the setup for such other devices so as to avoid persistent device configurations that might create a configuration maintenance and management burden.

☐ 6. Document ID: US 20020029256 A1

L31: Entry 6 of 16 File: PGPB Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029256
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020029256 A1

TITLE: XML-based template language for devices and services

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zintel, William M.	Kenmore	WA	US	
Gandhi, Amar S.	Redmond	WA	US	
Gu, Ye	Seattle	WA	US	
Pather, Shyamalan	Redmond	WA	US	
Schlimmer, Jeffrey C.	Redmond	WA	US	
Rude, Christopher M.	Redmond	WA	US	
Weisman, Daniel R.	Kirkland	WA	US	

Ryan, Donald R.	Redmond	WA	US
Leach, Paul J.	Seattle	WA	US
Cai, Ting	Redmond	WA	US
Knight, Holly N.	Woodinville	WA	US
Ford, Peter S.	Carnation	WA	US

US-CL-CURRENT: 709/218

ABSTRACT:

A universal plug and play (UPnP) device makes itself known through a set of processes-discovery, description, control, eventing, and presentation. Following discovery of a UPnP device, an entity can learn more about the device and its capabilities by retrieving the device's description. The description includes vendor-specific manufacturer information like the model name and number, serial number, manufacturer name, URLs to vendor-specific Web sites, etc. The description also includes a list of any embedded devices or services, as well as URLs for control, eventing, and presentation. The description is written by a vendor, and is usually based on a device template produced by a UPnP forum working committee. The template is derived from a template language that is used to define elements to describe the device and any services supported by the device. The template language is written using an XML-based syntax that organizes and structures the elements.

☐ 7. Document ID: US 6606744 B1

L31: Entry 7 of 16 File: USPT Aug 12, 2003

US-PAT-NO: 6606744
DOCUMENT-IDENTIFIER: US 6606744 B1

TITLE: Providing collaborative installation management in a network-based supply chain environment

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mikurak; Michael G.	Hamilton	NJ		

US-CL-CURRENT: 717/174; 705/26, 717/178

ABSTRACT:

A system, method and article of manufacture are provided for collaborative installation management in a network-based supply chain environment. According to an embodiment of the invention, telephone calls, data and other multimedia information are routed through a network system which includes transfer of information across the internet utilizing telephony routing information and internet protocol address information. The system includes integrated Internet Protocol (IP) telephony services allowing a user of a web application to communicate in an audio fashion in-band without having to pick up another

telephone. Users can click a button and go to a call center through the network using IP telephony. The system invokes an IP telephony session simultaneously with the data session, and uses an active directory lookup whenever a user uses the system. Users include service providers and manufacturers utilizing the network-based supply chain environment.

18 Claims, 130 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 130

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Desc

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☐ 8. Document ID: US 6438750 B1

L31: Entry 8 of 16 File: USPT Aug 20, 2002

US-PAT-NO: 6438750
DOCUMENT-IDENTIFIER: US 6438750 B1

TITLE: Determining loading time of an operating system

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Eric C.	Sunnyvale	CA		

US-CL-CURRENT: 717/178; 713/1, 713/2, 717/173, 717/174

ABSTRACT:

The present invention is a method and apparatus to determine loading time of an operating system in a computer system. A basic input and output system (BIOS) retrieves a first time value from a real-time clock. The BIOS loads the OS into memory of the computer system. The OS has a device driver. The device driver retrieves a second time value from the real-time clock. A time difference is computed based on the first and second time value to obtain the loading time of the OS.

40 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Desc

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☐ 9. Document ID: US 6401202 B1

L31: Entry 9 of 16 File: USPT Jun 4, 2002

US-PAT-NO: 6401202
DOCUMENT-IDENTIFIER: US 6401202 B1

TITLE: Multitasking during BIOS boot-up

DATE-ISSUED: June 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Abgrall; Jean-Paul	San Jose	CA		

US-CL-CURRENT: 713/2

ABSTRACT:

The present invention is a method and apparatus to perform multitasking in a basic input and output system (BIOS). Interrupt signals are enabled at predetermined interrupt times. A first task is performed in response to the interrupt signals at the interrupt times. A second task is performed between the successive interrupt times.

40 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

☐ 10. Document ID: US 6266809 B1

L31: Entry 10 of 16 File: USPT Jul 24, 2001

US-PAT-NO: 6266809
DOCUMENT-IDENTIFIER: US 6266809 B1

TITLE: Methods, systems and computer program products for secure firmware updates

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Craig; Jeffrey A.	Chapel Hill	NC		
Harter; John L.	Cary	NC		
Johnson; Robert A.	Cary	NC		
Lauber; Brian Stuart	Raleigh	NC		
Stafford; James M.	Austin	TX		

US-CL-CURRENT: 717/173

ABSTRACT:

Methods, systems and computer program products are provided which update firmware in a network computer by replacing the standard operating system to be loaded at the initialization of the network computer with a firmware update operating system. The firmware update operating system is then downloaded to the network computer and initiated to update the firmware of the network computer. The firmware update operating system may then be replaced with the standard operating system to be loaded at the

initialization of the network computer. The network computer may then be reinitialized by, for example, a cold boot, so as to load the standard operating system. The cold boot may be server initiated so as to allow for firmware updates with intervention by an operator at the network computer.

28 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☐ 11. Document ID: US 5917912 A

L31: Entry 11 of 16 File: USPT Jun 29, 1999

US-PAT-NO: 5917912
DOCUMENT-IDENTIFIER: US 5917912 A
**** See image for Certificate of Correction ****

TITLE: System and methods for secure transaction management and electronic rights protection

DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginter; Karl L.	Beltsville	MD		
Shear; Victor H.	Bethesda	MD		
Spahn; Francis J.	El Cerrito	CA		
Van Wie; David M.	Sunnyvale	CA		

US-CL-CURRENT: 713/187; 705/40, 709/312, 713/164

ABSTRACT:

The present invention provides systems and methods for secure transaction management and electronic rights protection. Electronic appliances such as computers equipped in accordance with the present invention help to ensure that information is accessed and used only in authorized ways, and maintain the integrity, availability, and/or confidentiality of the information. Such electronic appliances provide a distributed virtual distribution environment (VDE) that may enforce a secure chain of handling and control, for example, to control and/or meter or otherwise monitor use of electronically stored or disseminated information. Such a virtual distribution environment may be used to protect rights of various participants in electronic commerce and other electronic or electronic-facilitated transactions. Distributed and other operating systems, environments and architectures, such as, for example, those using tamper-resistant hardware-based processors, may establish security at each node. These techniques may be used to support an all-electronic information distribution, for example, utilizing the "electronic highway."

58 Claims, 153 Drawing figures
Exemplary Claim Number: 58
Number of Drawing Sheets: 146

☐ 12. Document ID: US 5909437 A

L31: Entry 12 of 16 File: USPT Jun 1, 1999

US-PAT-NO: 5909437
DOCUMENT-IDENTIFIER: US 5909437 A

TITLE: Software download for a subscriber terminal of a wireless telecommunications system

DATE-ISSUED: June 1, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rhodes; Robert G.	Reading			GB
Cooper; Guy A.	Windsor			GB

US-CL-CURRENT: 370/349; 370/373, 370/469, 455/420, 713/2

ABSTRACT:

Software is down-loaded from a central station of a wireless telecommunications system to a remote subscriber station for configuring the remote subscriber station to permit wireless connection of user telecommunications equipment at the remote subscriber station to the central station. A multi-layer down-load protocol includes a number of independent protocol layers, preferably operating a master-slave configuration. Each layer controls respective sequence numbers to ensure system integrity. Control software is arranged with a device independent boot-strap and a set of device specific external service parameters to provide portability.

53 Claims, 38 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw. Desc

☐ 13. Document ID: US 5465357 A

L31: Entry 13 of 16 File: USPT Nov 7, 1995

US-PAT-NO: 5465357
DOCUMENT-IDENTIFIER: US 5465357 A

TITLE: Method and apparatus for an automated dynamic load of an ABIOS device support layer in a computer system

DATE-ISSUED: November 7, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bealkowski; Richard	Delray Beach	FL		
Geisler; Douglas R.	Boca Raton	FL		
Turner; Michael R.	Boca Raton	FL		

US-CL-CURRENT: 713/2

ABSTRACT:

A personal computer system is disclosed which is compatible with application programs and operating system software. The personal computer system includes a microprocessor electrically coupled to a data bus, non-volatile memory electrically coupled to the data bus, volatile memory electrically responsive to the data bus, and a direct access storage device electrically responsive to the data bus. The non-volatile memory stores a first portion of operating system microcode and stores a load indicator. The direct access storage device stores the second portion of operating system microcode which is loaded into the volatile memory by the inialization program based upon the load indicator.

8 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

☐ 14. Document ID: US 5463735 A

L31: Entry 14 of 16 File: USPT Oct 31, 1995

US-PAT-NO: 5463735
DOCUMENT-IDENTIFIER: US 5463735 A

TITLE: Method of downloading information stored in an arching device to destination network controller through intermediate network controllers in accordance with routing information

DATE-ISSUED: October 31, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pascucci; Gregory A.	Waukesha	WI		
Rasmussen; David E.	Wales	WI		
Decious; Gaylon M.	Milwaukee	WI		
Garbe; James R.	Greenfield	WI		
Hyzer; Susan M.	Brown Deer	WI		
Woest; Karen L.	Wauwatosa	WI		
Vairavan; Vairavan	Milwaukee	WI		
Koch; David L.	Fox Point	WI		
Gottschalk, Jr.; Donald A.	Milwaukee	WI		
Burkhardt; Dennis E.	Franklin	WI		

Standish; Darrell E.	New Berlin	WI
Madaus; Paul W.	Oak Creek	WI
Spacek; Dan J.	Cudahy	WI
Nesler; Clay G.	New Berlin	WI
Stark; James K.	Wauwatosa	WI
Mageland; Otto M.	Greenfield	WI
Singers; Robert R.	Brown Deer	WI
Wagner; Michael E.	Delafield	WI

US-CL-CURRENT: 709/222; 370/351, 700/2, 709/237, 709/243, 710/104

ABSTRACT:

A network system having a wide variety of applications and particularly applicable to facilities management systems includes network controllers which continuously process data related to building and industrial, environmental, security and other automated system controls. Each network controller has a network address indicative of a communication link to which the network controller is connected, a local address and a node drop ID to determine whether the network controller is a configured or non-configured device. Data stored in an archive device is downloaded to a destination network controller in the absence of a routing table in the destination network controller by transmitting a download request message from the archive device to an intermediate network controller with a routing table. The intermediate network controller assumes control of the download request by transmitting the message to the destination controller. The destination controller acknowledges receipt of the message by transmitting an acknowledge message back to the intermediate network controller, which passes the acknowledge message to the archive device in accordance with the routing information stored in the intermediate network controller. Thus, as certain network controllers are connected, disconnected or disabled during the operation of the network, the control of a process is not interrupted. Additionally, the network controllers are not configured to store large amounts of routing data because a path to a device can be established through other controllers with routing information.

7 Claims, 86 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 83

☐ 15. Document ID: US 5455926 A

L31: Entry 15 of 16 File: USPT Oct 3, 1995

US-PAT-NO: 5455926
DOCUMENT-IDENTIFIER: US 5455926 A

TITLE: Virtual addressing of optical storage media as magnetic tape equivalents

DATE-ISSUED: October 3, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY

Keele; Richard V.	San Diego	CA
Mautner; Craig D.	San Diego	CA
Thorpe; Tracy J.	Encinitas	CA
Thompson; Sidney R.	San Diego	CA
Goodsell; Michael C.	Chula Vista	CA
Erdelsky; Philip J.	San Diego	CA

US-CL-CURRENT: 711/4; 711/112, 711/202

ABSTRACT:

An optical disk storage system emulates a magnetic tape subsystem by virtual addressing of data recorded on write once optical disk media having a predetermined group of available sectors for rewriting a disk ID, a predetermined plurality of bands of available sectors for rewriting a virtual tape directory to virtual tape VSNs, and, available sectors for rewriting virtual tape maps and rewriting user records, the tape maps have data portions for simulating tape marks and interblock gap and for addressing blocks of data within the virtual tapes, the virtual tape directory has pointers for pointing to tape maps, and the system rewrites the tape directory, tape maps and user records so as to function as a rewritable magnetic tape.

41 Claims, 15 Drawing figures
Exemplary Claim Number: 4
Number of Drawing Sheets: 15

☐ 16. Document ID: US 5438674 A

L31: Entry 16 of 16 File: USPT Aug 1, 1995

US-PAT-NO: 5438674
DOCUMENT-IDENTIFIER: US 5438674 A

TITLE: Optical disk system emulating magnetic tape units

DATE-ISSUED: August 1, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keele; Richard V.	San Diego	CA		
Mautner; Craig D.	San Diego	CA		
Thorpe; Tracy J.	Encinitas	CA		
Thompson; Sidney R.	San Diego	CA		
Goodsell; Michael C.	Chula Vista	CA		

US-CL-CURRENT: 711/4; 703/23, 707/204, 707/205, 711/112, 711/202, 711/221

ABSTRACT:

An optical disk system emulating a 3480 magnetic tape subsystem having one or more

magnetic tape drives, includes a VMEGate channel attached processor for receiving CCW tape commands, a SCSI board for controlling SCSI optical disk drives, a serial I/O board for controlling jukebox optical disk media handlers for automatically robotically loading and unloading optical disks containing virtual tape data into the optical disk drives, a cache RAM for buffering data between the channel and the optical disk drives, operator consoles for emulating the 3480 magnetic tape subsystem control panels, an SBC computer and VME bus for central control of the system, and floppy and hard disk drives for storing emulation SBC programs and disk directories, to enable the system to exhibit an organization of virtual tape data into a system of pointers and user records of the virtual tapes, a reallocatable mapping between magnetic tape drives and the optical disk drives, disk directories cross referencing virtual tapes VSNs to optical disks for locating particular optical disks storing requested VSNs, and to enable WORM optical media to appear to the channel as rewritable magnetic tape through the conversion of tape commands to jukebox load operations and optical disk drive seek operations for increased performance, said system emulates a 3480 magnetic tape subsystem by using jukeboxes to automatically load optical media into and out of optical disk drives and by using a dynamic re-allocation method for maintaining a one-to-one mapping between the virtual magnetic tape drives and the optical disk drives, which reduces access speed to the data.

27 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Terms	Documents
L30 and programmable	16